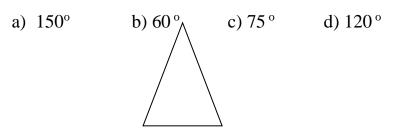
INDIAN SCHOOL SOHAR FORMATIVE ASSESSMENT III 2013-14 MATHEMATICS

Date: 06-11-13 Class: VII Marks: 25 Time: 40 Minutes

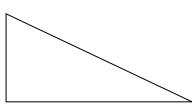
SECTION-A (Each question carries 1 mark)

Fill up the blanks choosing the most suitable answers from the options given.

1. The value of *x* in the figure is



- 2. The type of triangle given below is
 - a) Acute angled b) Obtuse c) Isosceles d) Right angled



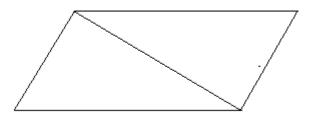
3. If $\triangle ABC \cong \triangle PQR$, then a) $\angle B = \angle Q$ b) AC = PR c) AB = QR d) $\angle A = \angle R$ SECTION-B

(Each question carries 2 marks)

4. The triangles in the figure are congruent. Name the congruency condition used here. Write which one of the following congruency statements is true.

i) $\triangle ABC \cong \triangle ADC$ ii) $\triangle ABC \cong \triangle ACD$ iii) $\triangle ABC \cong \triangle DCA$

iv) $\triangle ABC \cong \triangle CAD v$) $\triangle ABC \cong \triangle DAC vi$) $\triangle ABC \cong \triangle CDA$

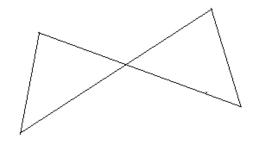


- 5. In $\triangle ABC$, $\angle C$ is a right angle. AC = 12cm and BC = 9cm. Find the length of side AB.
- 6. Can a triangle have sides 10.2cm, 5.8cm and 4.5cm? Why or why not?
- 7. The sides of a rectangle are 15m and 8m. Find the length of its diagonal.

SECTION-C

(Each question carries 3 marks)

- 8. In right angled triangle ABC right angled at B, AB = 40 cm and AC = 41 cm. Find the length of side BC.
- 9. In figure line segments AB and CD bisect each other at P. Name the congruency criterion by which $\triangle APC \cong \triangle BPD$. State the congruent parts used.



SECTION-D (Each question carries 4 marks)

- 10. $\triangle PQR$ is isosceles with PQ =PR. S is the midpoint of QR.
 - i) Name the congruency criterion by which $\Delta PQS \cong \Delta PRS$.
 - ii) State the congruent parts used.
 - iii) Is $\angle QPS = \angle RPS$? Why?
- 11. Ashok fixed a triangular tent of height 3m. He tied the ends of the tents to two pegs fixed on the ground 8m apart. What is the length of the tent from peg to peg?

